

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°12'35", long 112°58'40", in NW_{1/4} SW_{1/4} NW_{1/4} sec. 22, T. 41 S., R. 10 W., Washington County, Hydrologic Unit 15010008, Zion National Park, on right bank 0.2 mi downstream from point of diversion of Springdale Canal, 0.5 mi downstream from Pine Creek, and 1.9 mi northeast of Springdale.

DRAINAGE AREA.--344 mi².

PERIOD OF RECORD.--May 1913 to June 1914, June to November 1923, April to June, August and September 1925 (fragmentary), October 1925 to current year. Published as Zion Creek near Springdale 1913-14 and as Mukuntuweap River near Springdale 1923, 1925-32. Published as combined flow of river and Springdale canal 1923, 1925-88.

GAGE.--Water-stage recorder. Crest-stage gage since May 31, 1995. Elevation of gage is 3,970 ft above NGVD of 1929, from topographic map. May 13, 1913, to June 30, 1914, nonrecording gage at site 3.8 mi downstream at different datum. June 6, 1923 to September 1925, nonrecording gage at site 0.8 mi upstream. October 1, 1925 to December 14, 1949, nonrecording gage 50 ft downstream at datum 0.34 ft higher.

REMARKS.-- Records good except for estimated daily discharges, which are poor. Some regulation of low flows by Kolob Reservoir (20 mi upstream) and several diversions for irrigation upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 9,150 ft³/s, Dec 6, 1966, gage height, 12.98 ft, from rating curve extended above 2,000 ft³/s on basis of drift measurement at gage height, 6.7 ft, and slope-area measurement at gage height, 10.25 ft; minimum estimated, less than 5.0 ft³/s, Apr 12, 1995, result of landslide 1.0 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	2215	*213	*1.85				

Minimum daily discharge, 22 ft³/s, on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	41	46	49	60	47	52	36	26	22	24	25
2	31	41	51	47	64	38	50	36	26	23	29	25
3	31	41	50	44	66	e40	51	37	26	23	25	25
4	32	42	51	47	66	44	51	36	26	23	24	25
5	34	41	41	42	47	49	51	37	26	23	23	25
6	36	41	41	46	45	51	50	35	26	22	23	36
7	36	41	46	50	46	52	50	34	25	22	23	83
8	35	42	40	63	46	55	47	34	25	22	23	61
9	36	41	40	75	45	43	44	33	25	22	23	56
10	35	43	47	72	43	53	43	33	24	23	22	40
11	35	44	47	68	44	49	42	33	24	27	23	40
12	36	42	39	72	49	50	42	33	25	26	22	39
13	37	44	35	69	46	51	45	31	25	24	22	38
14	36	46	36	66	50	45	43	29	24	23	22	34
15	35	44	40	66	48	41	41	28	25	25	22	34
16	37	43	39	66	49	46	42	28	24	29	22	32
17	37	43	36	60	49	47	41	28	23	28	22	31
18	36	44	42	55	48	46	40	28	24	31	22	30
19	38	43	41	58	46	43	40	29	23	27	22	30
20	38	42	43	60	48	47	40	28	23	27	22	30
21	39	43	45	64	48	49	42	27	24	27	22	30
22	38	46	45	68	48	49	40	28	24	25	22	31
23	36	44	43	e62	50	52	39	29	24	24	22	29
24	37	43	43	57	49	53	38	30	23	24	22	30
25	38	54	41	63	47	49	38	31	23	26	23	29
26	37	36	39	69	45	49	38	29	22	25	22	29
27	37	38	41	69	47	48	46	28	23	25	23	28
28	40	36	46	69	47	49	44	27	23	24	23	32
29	40	47	50	67	---	52	41	26	22	23	23	53
30	39	48	50	e62	---	51	37	27	22	23	24	42
31	40	---	49	e60	---	51	---	27	---	23	24	---
TOTAL	1123	1284	1343	1885	1386	1489	1308	955	725	761	710	1072
MEAN	36.23	42.80	43.32	60.81	49.50	48.03	43.60	30.81	24.17	24.55	22.90	35.73
MAX	40	54	51	75	66	55	52	37	26	31	29	83
MIN	31	36	35	42	43	38	37	26	22	22	22	25
AC-FT	2230	2550	2660	3740	2750	2950	2590	1890	1440	1510	1410	2130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

VIRGIN RIVER BASIN

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1989 - 2002
ANNUAL TOTAL	27458	14041	91.44
ANNUAL MEAN	75.23	38.47	207
HIGHEST ANNUAL MEAN			1993
LOWEST ANNUAL MEAN			38.5 2002
HIGHEST DAILY MEAN	372	May 1	1140 May 4 1993
LOWEST DAILY MEAN	30	Sep 7	22 Aug 5 1994
ANNUAL SEVEN-DAY MINIMUM	31	Sep 25	22 Aug 12 2002
ANNUAL RUNOFF (AC-FT)	54460	27850	66250
10 PERCENT EXCEEDS	172	52	161
50 PERCENT EXCEEDS	46	39	54
90 PERCENT EXCEEDS	34	23	33

e Estimated

